

Tent-style greenhouse for multiplication of sweet potato vines and cuttings



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Greenhouse Solutions for Thriving Sweet Potato Farms

The tent-style greenhouse, built with local materials and screen nets, provides an optimal, pest-free environment for sweet potato vines. It maintains soil moisture and ensures the production of high-quality, disease-free planting material. This cost-effective and easy-to-assemble technology is a practical tool for farmers to increase sweet potato yield.

This technology is **TAAT1 validated**.

8-9
 Scaling readiness: idea maturity 8/9; level of use 9/9

Inclusion assessment **4**

Climate impact **6**

Problem

- **Planting Material:** Shortage and degradation over time.
- **Pests/Diseases:** Susceptibility impacting crop health and yield.
- **Infrastructure/Cost:** High costs and local material availability issues.

Solution

- **Efficient Production:** Multiplication of healthy vines and cuttings.
- **Pest/Disease Control:** Screen nets for a pest-free environment.
- **Cost-Effective:** Built with cheaper, locally available materials.

Key points to design your program

Tent-Style Greenhouses for Sweet Potato Vine Multiplication can be integrated into seed systems, food security, nutrition, climate resilience, and sweet potato development programs to improve access to disease-free planting materials, increase productivity, and strengthen crop resilience. Its adoption contributes to **SDGs 1, 2, 3, and 13**.

To integrate this technology into your project, plan and budget for the following activities and prerequisites:

- Facilitate access to greenhouse structures, irrigation systems, and quality planting materials.
- Build partnerships with CIP, research institutes, extension services, cooperatives, and nurseries.
- Train beneficiaries on vine multiplication, greenhouse management, and pest and disease control.
- Promote women's and youth participation in nursery and vine multiplication enterprises.
- Monitor vine production, adoption rates, crop productivity, and employment creation.

4-9 USD sales of vines per square meter

IP Open source / open access

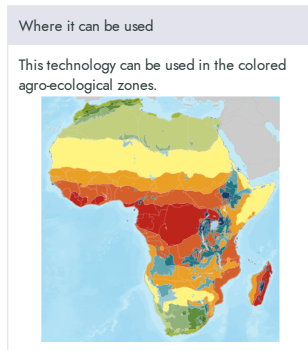
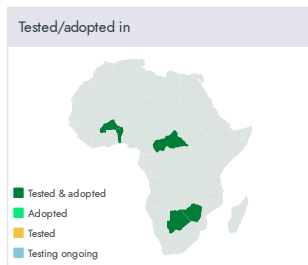
Technology from
ProPAS

Commodities
Sweet Potato

Sustainable Development Goals

Categories
Pre-production, Equipment, Seed system

Best used with
Orange-Fleshed Sweet Potato (High provitamin A)
[See all 1 technologies online](#)



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<https://taat.africa/urp>

Last updated on Jul 2, 2026 printed on Jul 9, 2026

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